Date: Wed,  8 Sep 93 11:13:21 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1064
To: Info-Hams

Info-Hams Digest            Wed,  8 Sep 93       Volume 93 : Issue 1064

Today's Topics:


Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party.  Your mileage may vary.  So there.
---------------------------------------------------------------------

Date: 8 Sep 93 17:26:02 GMT
From: ogicse!hp-cv!hp-pcd!hpcvsnz!tomb@network.ucsd.edu
Subject: Co-ax Question...
To: info-hams@ucsd.edu

Gary Coffman (gary@ke4zv.atl.ga.us) wrote:

: Even RG213 has substantial losses at UHF. There is a more recent
: cable that does much better. It's Belden 9913, and it's Wireman
: copy. This cable is stiffer, using a semi-airline construction.
: Connectors must be attached with more care, because of the increased
: possiblity of water incursion, PL259s work as is, though special
: waterproofing precautions must be taken, and special type N or BNC
: connectors are required due to the larger center conductor. 9913 uses
: a center conductor of 9.5 gauge while RG8 and RG213 use a 10 gauge wire.
: These connectors are now widely available from the sellers of the

: cable and only cost a few cents more than connectors for RG8. I
: prefer the Kings crimp connectors for reliability, but they require
: a special tool to install. The Amphenol connectors work without
: special tooling, but are a pain to install correctly. Make sure
: the rubber seal faces the right way.

I'd like to agree with the advice Gary posted including the above
and other paragraphs on mechanical considerations.  I would like to
make one small correction to the above paragraph that I think just
amplifies what Gary is saying there.  JAN RG-213/U has an
inner conductor of 7 strands of 0.0296" diameter bare copper.  That
works out to a _cross_section_ equivalent to 0.0783" diameter, which
is slightly smaller thatn 12 gauge, quite a bit smaller than the 10
gauge Gary mentions.  Even the diameter of the smallest circle which
will encompass the 7 strands is a couple mils smaller than 11 gauge.

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Date: 8 Sep 93 17:30:22 GMT
From: ogicse!hp-cv!hp-pcd!hpcvsnz!tomb@network.ucsd.edu
Subject: DSP filters as tone decoders ?
To: info-hams@ucsd.edu

RICHARD HAREL (RHAREL@FAB8.INTel.COM) wrote:
: Anyone out there seen code written to allow
: a DSP filter to be used as a tone decoder ?
: i.e. - DTMF, CTCSS, PBX signals, etc ?
: I would think since all of these tones are easily correlated,
: it could be done.

See Chapter 14 of "Digital Signal Processing Applications"
from Analog Devices.  There is example code for 2100-series
DSP's (and 2105's are available for about $10 each) to do
DTMF encoding and decoding.  There is multi-channel code
for 6 channels, "although at least 12 channels can be decoded
by an ADSP-2100A running at 12.5MHz instruction rate."

There is a disk with source code that comes with the book,
which your local AD sales office should be able to supply.

------------------------------

Date: Thu, 02 Sep 1993 18:10:12 -0500
From: swrinde!cs.utexas.edu!math.ohio-state.edu!howland.reston.ans.net!
spool.mu.edu!caen!nic.umass.edu!umassd.edu!ulowell!buscard!Uucp@network.ucsd.edu
Subject: I can't find my original license
To: info-hams@ucsd.edu

mas@porgy.jpl.nasa.gov (Marc A. Sarrel) writes:
:
: I'm looking forward to upgrading from Tech Classic to General sometime
: soon, but I can't find my original FCC license to take with me to the
: exam.  I have a photocopy that I carry with me, but not the original.
:
: What am I to do?
:
: Can I get the FCC to issue a replacement original, or will the
: examiners most likely accept a photocopy anyway?   ------------Yes
:
: Marc
:
: N7OLI
:
Yes, as far as FCC issuing a replacement....just fill out form 610 and
check off []Replacement lic.

They will want an explanation why you don't have the original.

As to the Examiners, if they know you real well, they might say 'ok go on
thru...' but by rights , they need to see the original IF there is any
doubt it's 'for real' ( your liecence).

Whgat I did was to 1st get the replacement, Then , upon getting it, I made
up the copies, and had no problem concerning examiners.



--
Randy KA1UNW           If you get a shock while
                      servicing  your  equipment,         "Works for me!"
                           DON'T  JUMP!                         -Peter Keyes
                  You might break an expensive tube!

------------------------------

Date: 8 Sep 1993 17:19:04 GMT
From: nothing.ucsd.edu!brian@network.ucsd.edu
Subject: I can't find my original license
To: info-hams@ucsd.edu

In article <747490498.AA02660@buscard.fidonet.org>
Marc.Grant@f121.n324.z1.fidonet.org (Marc Grant) writes:
>Examiners are not supposed to accept copies of the license.  The original
>is the only thing we are supposed to accept.  However, if you personally
>know a few of the examiners they might let you slide on this, especially
>if they are the ones who gave you the original exam.  They would have

>records of your first test.  Asking an examiner to run with a photocopy of
>the original license is strictly speaking, illegal.

Hmmph.  I'd like a specific quotation of the section of the Rules, the
law, or other official document which specifies that a copy is illegal,
what the penalties for violation of that rule is, and who enforces it.

Or is this just another case of the VEC putting additional requirements
onto the examination process?

You see, one of the local VECs has a reputation for trying to toughen
things up - like administering the exams on a computer that doesn't let
you go through and answer some of the questions and skip others,
requiring the code test to differentiate between '16' and 'sixteen'
in the "comprehension" part of the test, and the like.

Some may think this is a good thing.  I think it's not very far removed
from literacy tests for voters....
     - Brian

---

Date: Thu, 02 Sep 1993 08:04:14 -0500
From: swrinde!cs.utexas.edu!math.ohio-state.edu!sol.ctr.columbia.edu!news.kei.com!
yeshua.marcam.com!zip.eecs.umich.edu!caen!nic.umass.edu!umassd.edu!ulowell!
buscard!Uucp@network.ucsd.edu
Subject: Morris RIP
To: info-hams@ucsd.edu

In article <25ov2aINN37a@emx.cc.utexas.edu> oo7@emx.cc.utexas.edu (Derek Wills)
writes:
>julian@bongo.tele.com (Julian Macassey) reports:
>
>>>Mark L. Morris, aged 92, Founder of the Morris foundation
>>>died on July 8 in Naples Florida.
>
>>>These are trying times. First the Coast Guard gives up Morris,
>>>then Morris himself gives up.
>
>
>   Sad times indeed.   His brother Space went some time ago,
>   so that's the end of RTTY as well.
>
>
>Derek "R.I.P." Wills (AA5BT, G3NMX)
>Department of Astronomy, University of Texas,
>Austin TX 78712.  (512-471-1392)
>oo7@astro.as.utexas.edu

Nah Derek, cause my cousin Mark is still kickin, relatively young chap
at a mere 24!  So at least he wont have to Packet for heaven yet.

Charlie

Charles Morrison KI5XP                          Internet: ki5xp@ucs.usl.edu
U. of Southwestern La.                          Internet: cfm1471@ucs.usl.edu
Lafayette, La.  70506                             Packet: KI5XP@K5ARH.LA
(318) 988-3821

          ****** Field Day (2A): W5DDL #2 in 92, #1 in '93 ******

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Date: 8 Sep 93 09:04:19 GMT
From: dorsai.dorsai.org!dorsai.dorsai.org!not-for-mail@uunet.uu.net
Subject: Newsline on GEnie?  H
To: info-hams@ucsd.edu

 -=> In a message to All on 09-08-93  02:27, Clark Jones said: <=-

 Jo> I didn't catch much of this week's Newsline, but they did mention that
 Jo> they were going to make the entire script available on GEnie.  Since I
 Jo> (and probably a lot of other Usenet readers) don't have access to
 Jo> GEnie, I would hope that someone would be kind enough to transfer it
 Jo> over on a regular basis!

Newsline is a copywrited feature, permission would have to be granted.
I'll ask Bill if he will allow me to forward it to r.r.info on a regular
basis.

*Steve Coletti A/K/A "BIG STEVE COLE"   Studio Line: (212) 995-2637*
*   Host of CROSSBAND, The news and information program for the    *
*            Radio, Communications and Computer Hobbist.           *
*Tuesdays by Satellite on Let's Talk Radio - S3/T21@5.8Mhz  10PM ET*
*GEnie: S.COLETTI2    PRODIGY: BJJM02A   FIDO: Big Steve 1:278/712 *
*Internet: bigsteve@dorsai.dorsai.org    P.O. Box 396, NY, NY 10002*

___ Blue Wave/QWK v2.12

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Date: Fri, 03 Sep 1993 01:09:51 -0500
From: caen!nic.umass.edu!umassd.edu!ulowell!buscard!Uucp@uunet.uu.net
Subject: Pt 1/2: Weekly Solar Terrestrial Forecast & Review for 03 September

To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---
September 3 to September 12, 1993

Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008

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*!*!*!*!*!*!* NOTE *!*!*!*!*!*!*

Version 2.00a of our Professional Dynamic Auroral Oval Simulator is now available. Completely rewritten, this software now produces numerous types of map projections centered on any geographical location, including OBLIQUE AZIMUTHAL EQUIDISTANT maps where radio signal paths are projected as straight lines. Precise DMSP Satellite Observations of Auroral Activity characteristics are also plottable for any hour of any day from December 1983 to 1992, making this the most extensive and contiguous database of auroral activity observations presently available. Valuable for radio communicators, aurora photographers, and astronomers. The software is now Windows 3.x compatible and will operate under either Mouse or Keyboard control. Many additional features are also included. Contact Oler@Rho.Uleth.CA, or COler@Solar.Stanford.Edu for more information or call our computer BBS at (403) 756-3008. A recorded message containing additional information is also available at: (403) 756-2386.

*!*!*!*!*!*!* NOTE *!*!*!*!*!*!*

## SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

### 10-DAY SOLAR/RADIO/MAGNETIC/AURORAL ACTIVITY OUTLOOK

| | 10.7 cm | HF Propagation | | | | | | +/- CON | SID | | | | AU.BKSR | | | DX | Mag | Aurora | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SolrFlx | LO | MI | HI | PO | SWF | %MUF | % | ENH | LO | MI | HI | LO | MI | HI | % | K Ap | LO | MI | HI |
| 03 | 080 | G | G | F | F | 05 | 00 | 70 | 05 | NA | NA | NA | 00 | 02 | 15 | 30 | 3 12 | NV | NV | LO |
| 04 | 080 | G | G | F | F | 05 | 00 | 75 | 05 | NA | NA | NA | 00 | 01 | 10 | 30 | 2 08 | NV | NV | LO |
| 05 | 080 | G | G | F | F | 10 | 00 | 75 | 10 | NA | NA | NA | 00 | 01 | 10 | 35 | 2 08 | NV | NV | LO |
| 06 | 080 | G | G | F | F | 10 | 00 | 75 | 10 | NA | NA | NA | 00 | 01 | 10 | 35 | 2 08 | NV | NV | LO |
| 07 | 085 | G | G | F | F | 15 | 00 | 70 | 15 | NA | NA | NA | 01 | 05 | 15 | 35 | 2 08 | NV | NV | LO |
| 08 | 085 | G | G | F | F | 15 | 00 | 70 | 15 | NA | NA | NA | 01 | 05 | 15 | 35 | 2 08 | NV | NV | LO |
| 09 | 085 | G | G | F | F | 15 | 00 | 70 | 15 | NA | NA | NA | 01 | 05 | 15 | 35 | 2 08 | NV | NV | LO |
| 10 | 090 | G | G | F | F | 15 | 00 | 70 | 15 | NA | NA | NA | 01 | 10 | 20 | 35 | 2 08 | NV | NV | LO |

```
11|  090  | G  G  P  F  15 -05  65| 15 NA NA NA  02 15 25 30|3 12|NV LO MO|
12|  090  | G  F VP  P  15 -25  60| 15 NA NA NA  05 35 50 25|5 30|NV MO HI|
```

DEFINITIONS:

Date (day only)
10.7 cm SOLaR radio FLuX forecast
HF Propagation Conditions for LOw, MIddle, HIgh, and POlar areas (see below)
HF Short Wave Fade Probability (in %)
HF Maximum Usable Frequency in +/- percent above seasonal normals.
HF Prediction CONfidence Level (in %)
VHF Sudden Ionospheric ENHancement Probs (in %), weighted for low-mid lats
PROBability of "s"poradic E (Es) during the UT day for low, mid and high lats
VHF AUroral BacKScatteR Probs (in %) for LOw, MIddle and HIgh Latitudes
VHF Overall Global DX Potential (in %) - weighted for Low and Middle latitudes
Geomagnetic Activity Kp Index (peak value - see below)
GeoMAGnetic Activity Ap Index (peak value - see below)
AURORAl Activity for LOw, MIddle and HIgh Latitudes (see below)

HF Prop. Quality rated as: EG=Extremely Good, VG=Very Good, G=Good, F=Fair,
   P=Poor, VP=Very Poor, EP=Extremely Poor.
Probability of Sporadic E (Es) for the various latitudes is given in percent.
Kp Planetary Index rated: 0=V.Quiet, 1=Quiet, 2=Unstld, 3=Active, 4=V.Active,
   5=Minor Storm, 6=Major Storm, 7=Maj-Sev Storm, 8=Severe Storm, 9=V.Severe.
Ap Planetary Index rated: 0-7=Quiet, 8-16=Unstld, 17-29=Active,
   30-49=Minor Storm, 50-99=Major Storm, Severe Storm >=100.
Auroral Activity rated: NV=Not Visible, LO=Low, MO=Moderate, HI=High,
   VH=Very High.

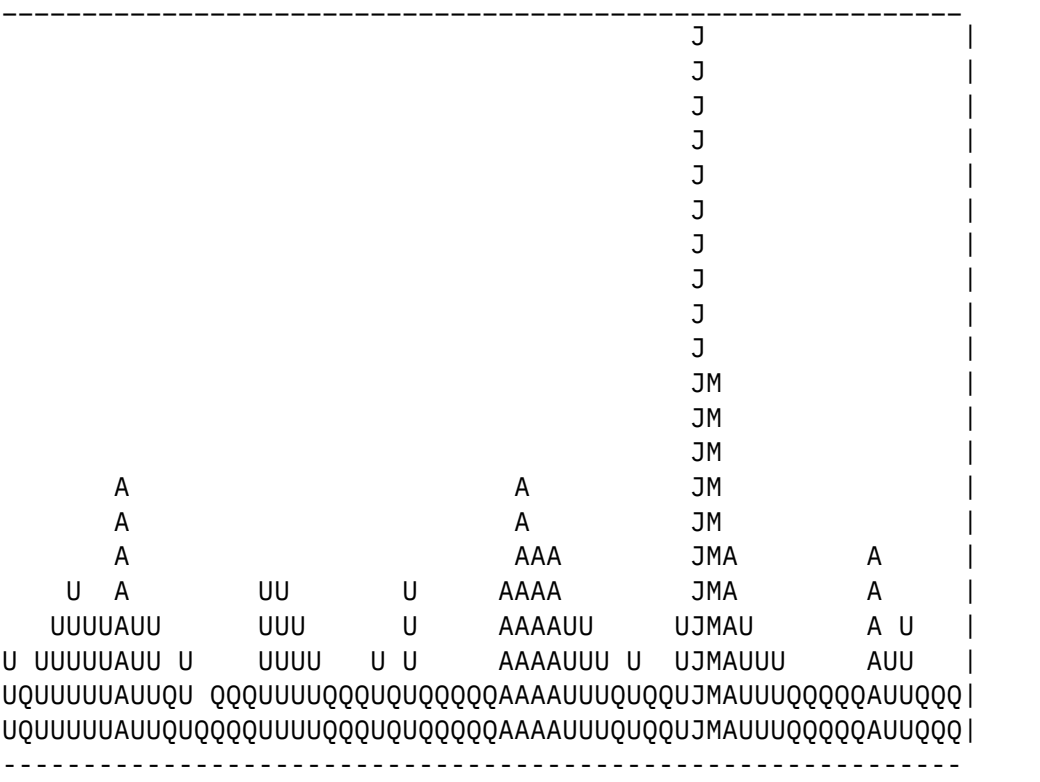
PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (03 SEP - 12 SEP)

| Geomagnetic Field Conditions | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Anomaly Intensity (Given in 8-hour UT intervals) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTREMELY SEVERE | | | | | | | | | | | HIGH |
| VERY SEVERE STORM | | | | | | | | | | | HIGH |
| SEVERE STORM | | | | | | | | | | | MODERATE |
| MAJOR STORM | | | | | | | | | | | LOW - MOD. |
| MINOR STORM | | | | | | | | | | ** | LOW |
| VERY ACTIVE | | | | | | | | | * | *** | NONE |
| ACTIVE | * | | | | | | | | ** | *** | NONE |
| UNSETTLED | ** | ** | * | * | * | * | * | * | *** | *** | NONE |
| QUIET | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | NONE |
| VERY QUIET | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | NONE |

CONFIDENCE LEVEL: 70%

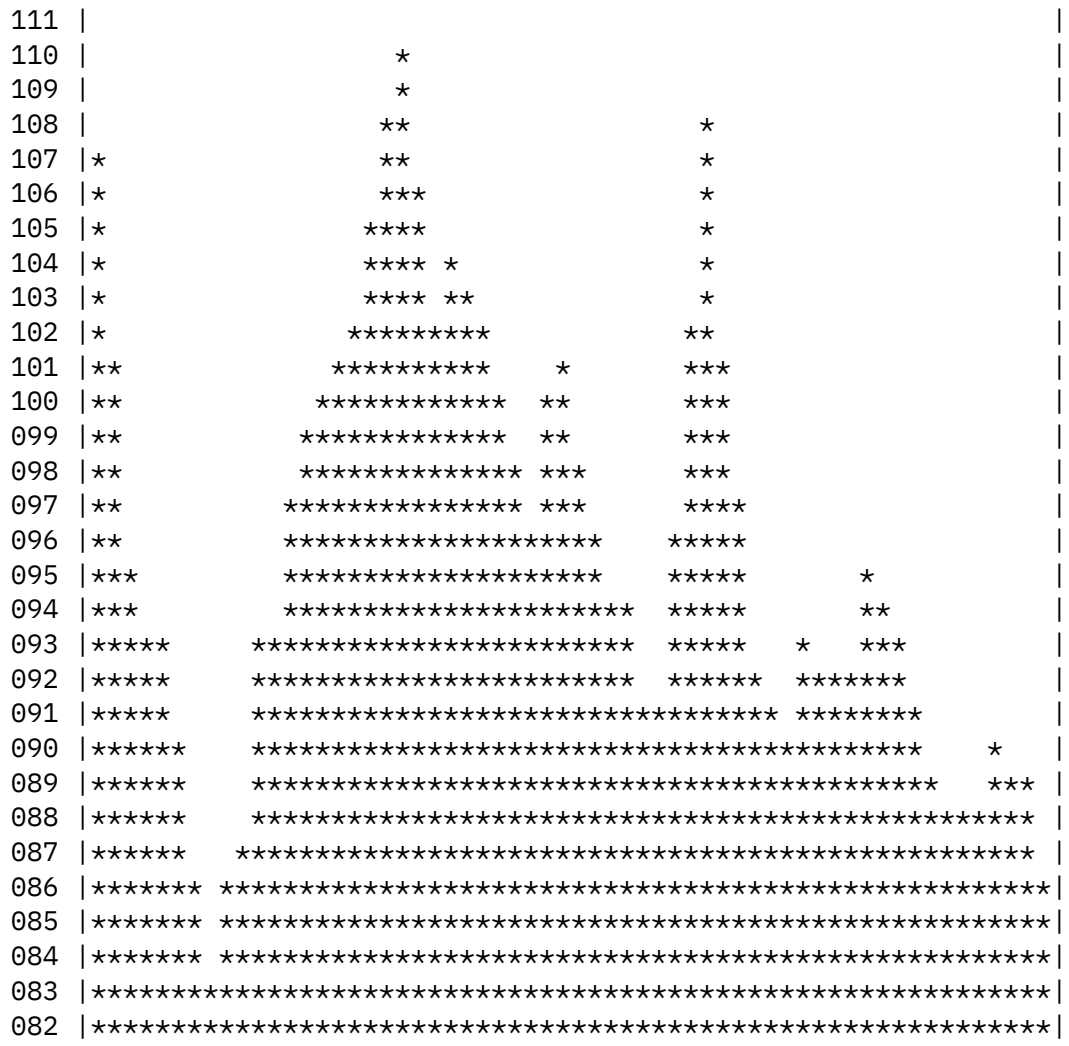
NOTES:
Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY

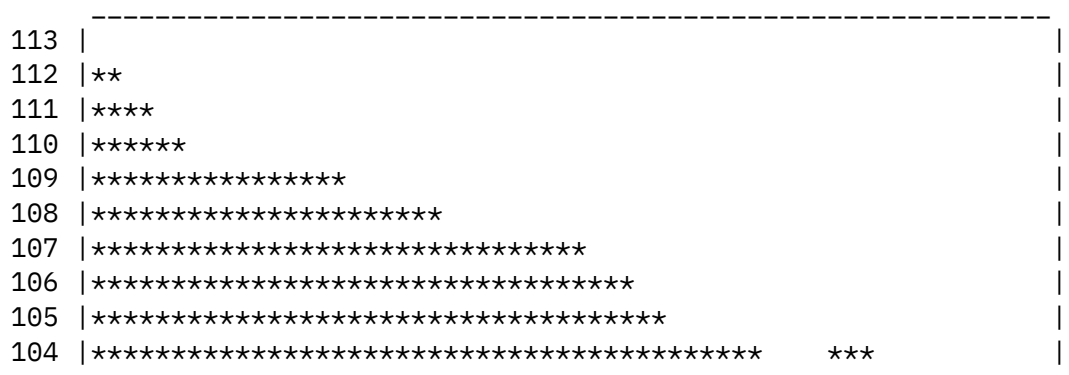



NOTES:
This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.
Q = Quiet, U = Unsettled, A = Active, M = Minor Storm,
J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX
---




GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX



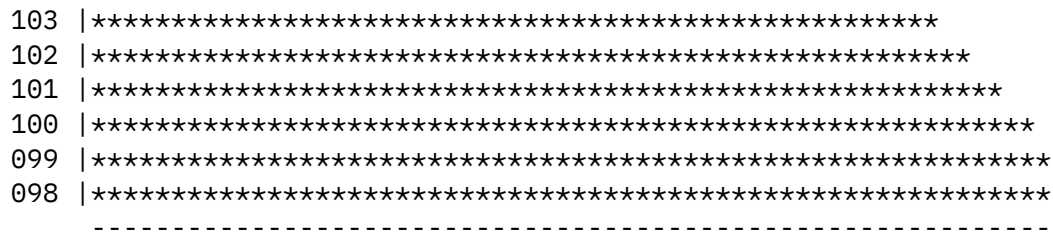


Chart Start:  Day #185

NOTES:
The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa).  High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS

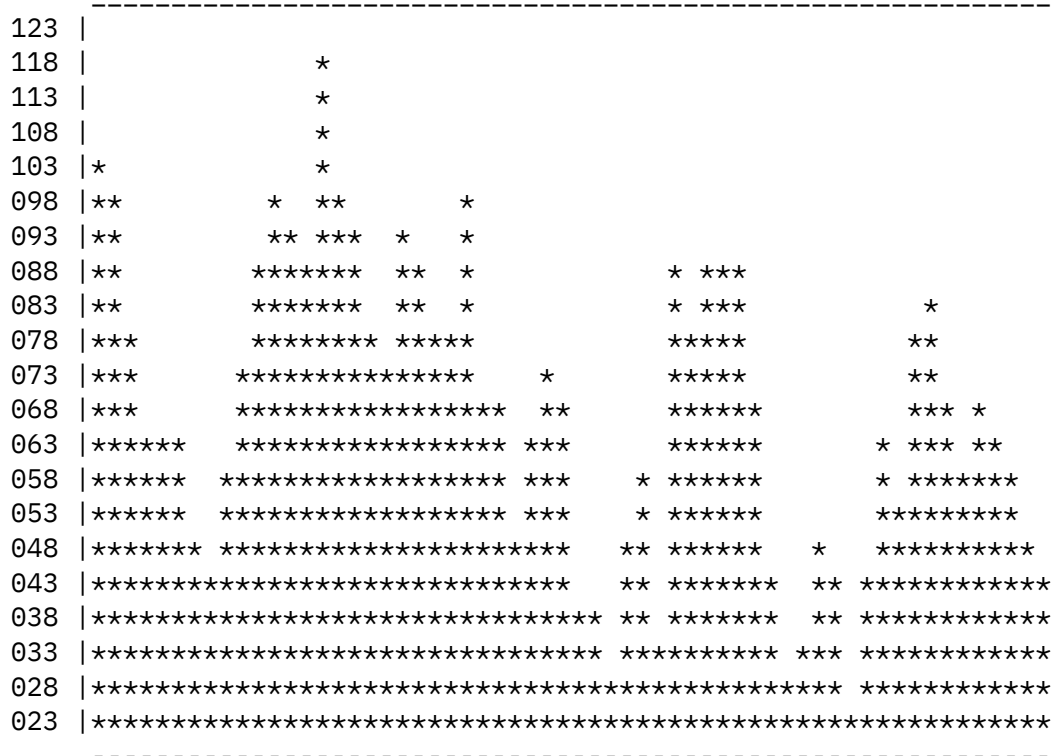
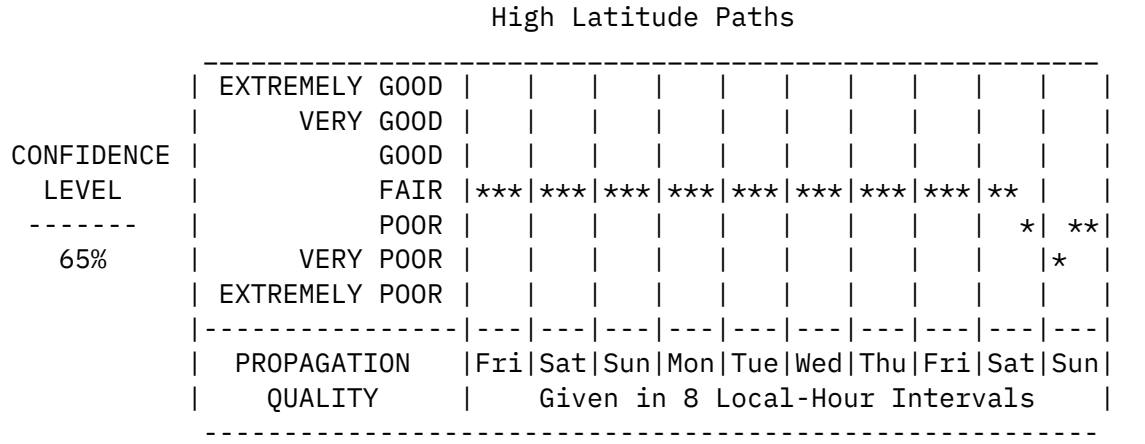


Chart Start:  Day #185

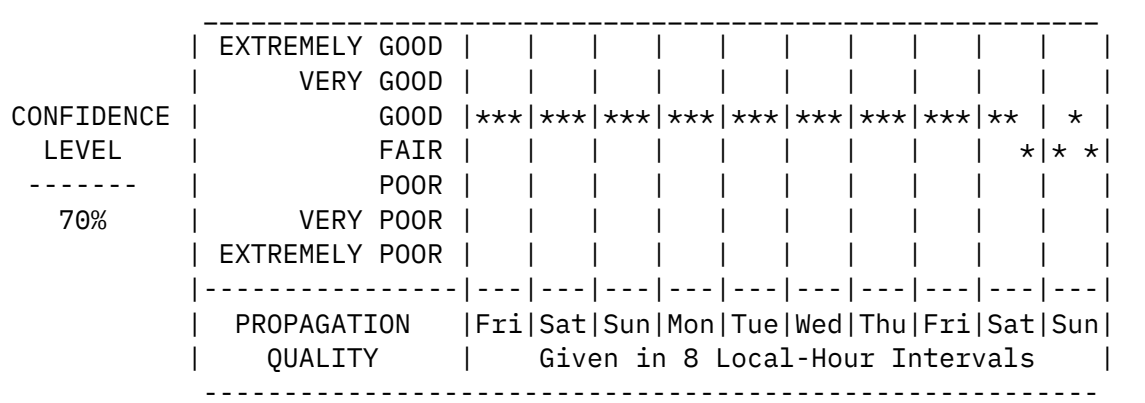
NOTES:
The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

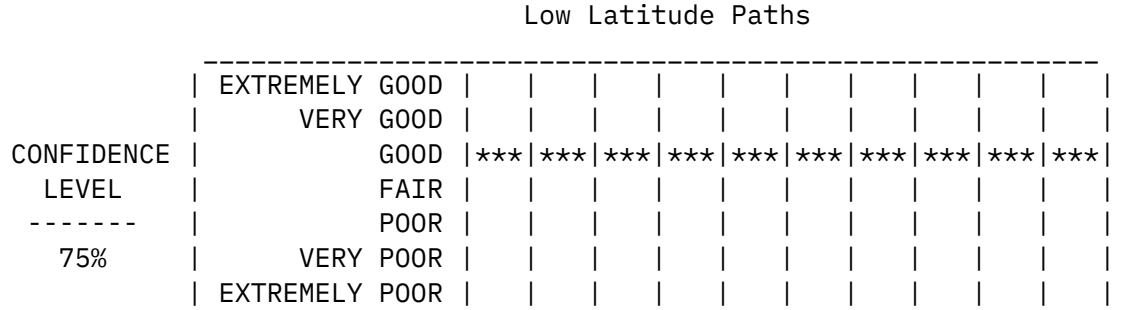
HF RADIO SIGNAL PROPAGATION PREDICTIONS (03 SEP - 12 SEP)




---

Date: Fri, 03 Sep 1993 01:09:51 -0500
From: caen!nic.umass.edu!umassd.edu!ulowell!buscard!Uucp@uunet.uu.net
Subject: Pt 2/2: Weekly Solar Terrestrial Forecast & Review for 03 September
To: info-hams@ucsd.edu



```
          |----------------|---|---|---|---|---|---|---|---|---|---|
          |  PROPAGATION   |Fri|Sat|Sun|Mon|Tue|Wed|Thu|Fri|Sat|Sun|
          |    QUALITY     |    Given in 8 Local-Hour Intervals    |
           ------------------------------------------------------
```

NOTES:

| NORTHERN HEMISPHERE | | SOUTHERN HEMISPHERE | |
|---|---|---|---|
| High latitudes | >= 55 deg. N. | High latitudes | >= 55 deg. S. |
| Middle latitudes | >= 40 < 55 deg. N. | Middle latitudes | >= 30 < 55 deg. S. |
| Low latitudes | < 40 deg. N. | Low latitudes | < 30 deg. S. |

POTENTIAL VHF DX PROPAGATION PREDICTIONS (03 SEP - 12 SEP)
INCLUDES SID AND AURORAL BACKSCATTER ENHANCEMENT PREDICTIONS

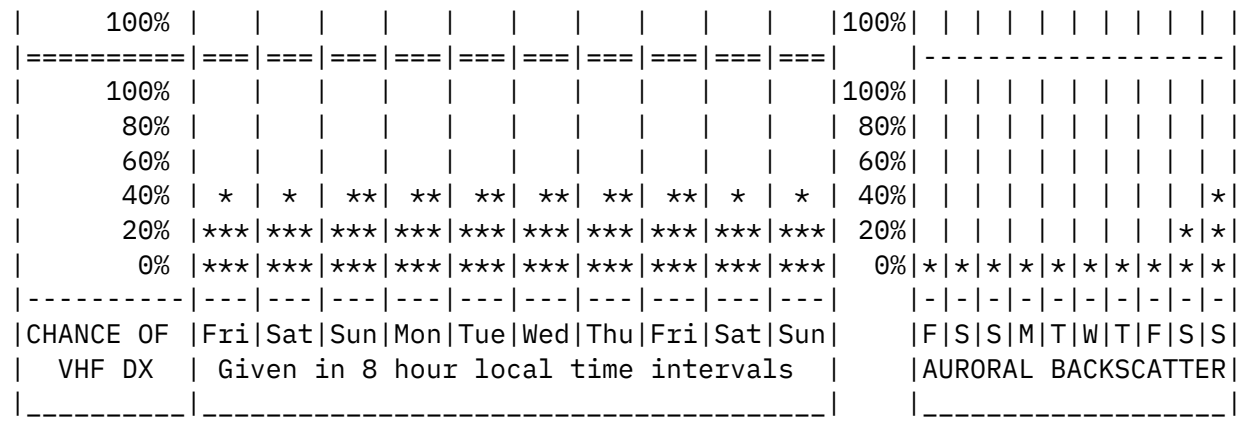
HIGH LATITUDES

| FORECAST CONFIDENCE | Given in 8 hour local time intervals: Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | SWF/SID ENHANCEMENT: F | S | S | M | T | W | T | F | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 0% | * | * | * | * | * | * | * | * | * |
| 20% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 20% | | | | | | | | | |
| 40% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 40% | | | | | | | | | |
| 60% | * | * | * | * | * | * | * | * | * | * | 60% | | | | | | | | | |
| 80% | | | | | | | | | | | 80% | | | | | | | | | |
| 100% | | | | | | | | | | | 100% | | | | | | | | | |
| 100% | | | | | | | | | | | 100% | | | | | | | | | |
| 80% | | | | | | | | | | | 80% | | | | | | | | | |
| 60% | | | | | | | | | | | 60% | | | | | | | | | * |
| 40% | * * | * | | | | | | * | * * | | 40% | * | | | | | | | * | * |
| 20% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 20% | * | * | * | * | * | * | * | * | * |
| 0% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 0% | * | * | * | * | * | * | * | * | * |

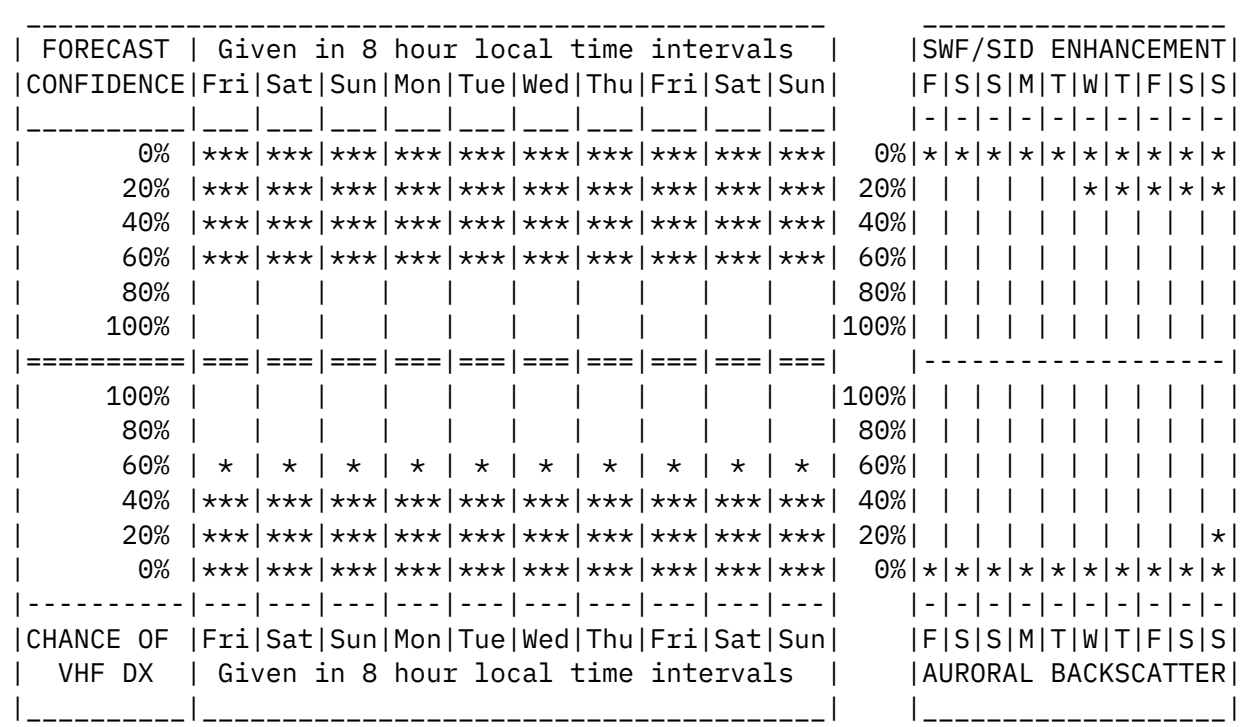
| CHANCE OF VHF DX | Given in 8 hour local time intervals: Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | AURORAL BACKSCATTER: F | S | S | M | T | W | T | F | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

MIDDLE LATITUDES

| FORECAST CONFIDENCE | Given in 8 hour local time intervals: Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | SWF/SID ENHANCEMENT: F | S | S | M | T | W | T | F | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 0% | * | * | * | * | * | * | * | * | * |
| 20% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 20% | | | | * | * | * | * | * | * |
| 40% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 40% | | | | | | | | | |
| 60% | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | 60% | | | | | | | | | |
| 80% | | | | | | | | | | | 80% | | | | | | | | | |




LOW LATITUDES

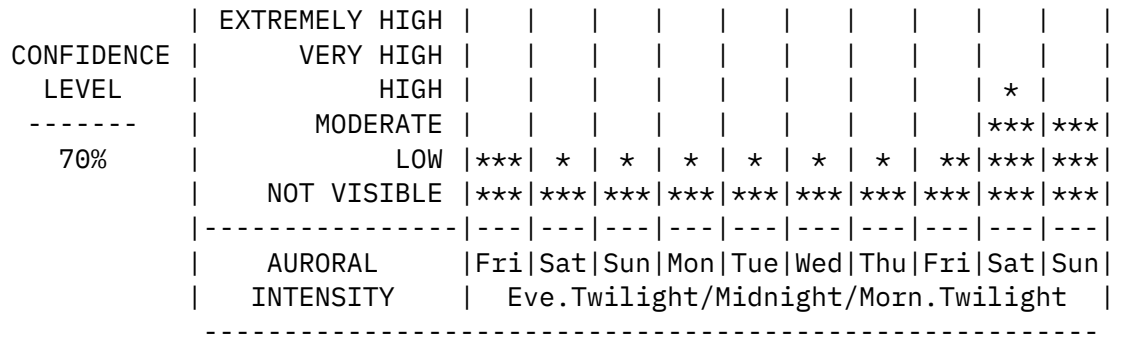



NOTES:

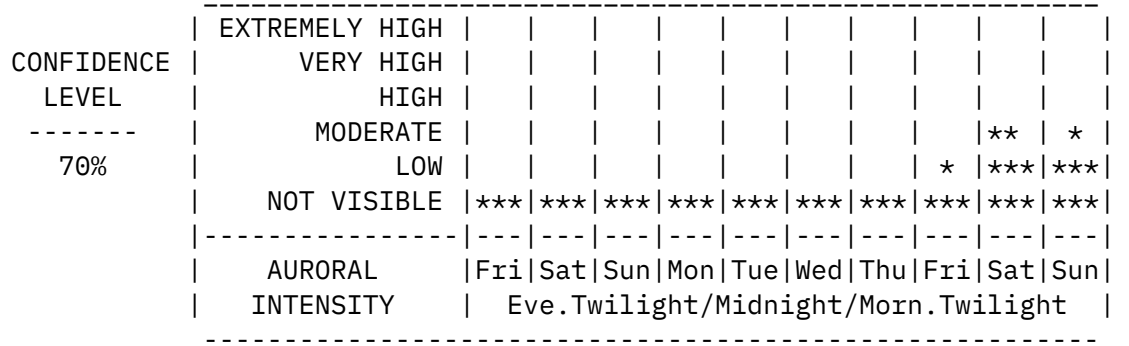
These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

AURORAL ACTIVITY PREDICTIONS (03 SEP - 12 SEP)

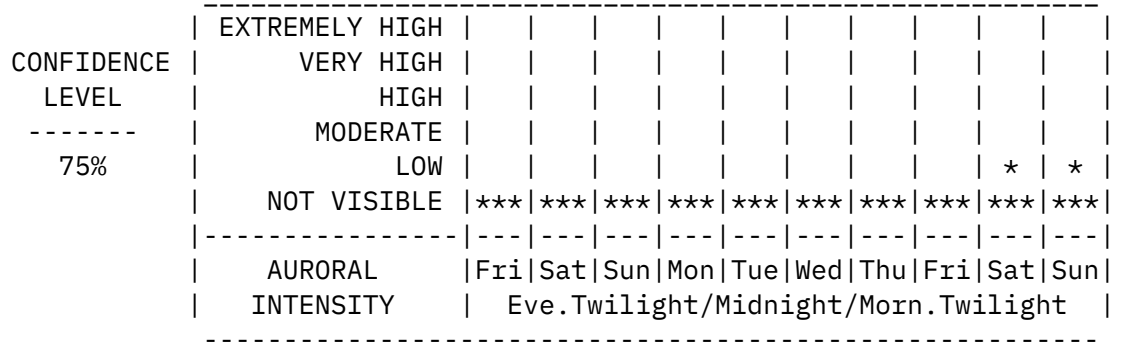
High Latitude Locations




Middle Latitude Locations




Low Latitude Locations




NOTE:
Version 2.00a of our Professional Dynamic Auroral Oval Simulation Software Package is now available. This professional software is particularly valuable to radio communicators, aurora photographers, educators, and astronomers. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

**  End of Report  **

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End of Info-Hams Digest V93 #1064
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